

CLAIMS

I claim:

1. A rotational power transferring tool comprising:

a pair of elongate housings adapted to be joined together in a housing assembly for enclosing and supporting a drive mechanism interconnected between a pair of rotatable elements, each being disposed within the housing assembly at opposite ends thereof, the drive mechanism providing a transfer of power between the rotatable elements so that rotation of one rotatable element at an input end of the housing assembly will affect driven rotation of the other rotatable element at an output end of the housing assembly on one side thereof being provided with a first interlock configuration overlying and encircling the input end rotatable element;

a motor mechanism having a rotatable drive shaft engageable with the input end rotatable element, the motor mechanism being integrally and directly formed with a second interlock configuration identical in size and shape to and matingly engageable with the first interlock configuration; and

a retaining element engageable with the rotatable drive shaft for attaching the motor mechanism and the housing assembly together.

2. The tool of claim 1, wherein the first and second interlock configuration are formed by a series of spaced apart, raised lugs projecting from horizontal planes on the one side of the housing assembly and an upper end of the motor mechanism.

3. The tool of claim 1, wherein the drive mechanism is flexible and is entrained about the rotatable elements.

4. The tool of claim 1, wherein the motor mechanism includes a socket for receiving a power line, and a forward/reverse switch for changing the direction of the motor mechanism.

5. The tool of claim 2, wherein each of the lugs has a trapezoidal shape.

6. A method for joining a rotational power transferring tool having a housing with an input end, an output end and a pair of rotatable elements to a motor mechanism, the method comprising the steps of:

- a) providing the input end of the tool housing on one side thereof with a
5 first interlock configuration overlying and encircling the rotatable element of the input end;
- b) integrally forming the motor mechanism around the drive shaft with a second interlock configuration identical to and matingly engageable with the first interlock configuration;
- 10 c) engaging the first and second interlock configurations as the drive shaft engages the input end rotatable element into driving relationship therewith; and
- d) providing a retaining element on the drive shaft to attach the tool housing and motor mechanism together.